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Applicants: Carsten Sjoeholm and Peter Rahbek Oestergaard

Serial No.: 09/779,323

Art Unit: 1651

Filed: February 8, 2001

Examiner: Not Yet Assigned

For: *USE OF ACID-STABLE PROTEASES IN ANIMAL FEED*

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicants submit an Information Disclosure Statement, including two (2) pages of Form PTO-1449, a copy of each document cited therein, and a copy of the International Search Report mailed 01 August 2001, in PCT/EP01/01153, which corresponds to the above-identified application.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-1868.

U.S. Patents

<u>Number</u>	<u>Issue Date</u>	<u>Patentee</u>	<u>Class Subclass</u>
3,683,069	08-08-1972	Hooreman	424 94
3,966,971	06-29-1976	Morehouse et al	426 44

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4,073,884	02-14-1978	Hartdegen et al.	424/94
4,518,697	05-21-1985	Bartnik et al.	435/254
5,047,240	09-10-1991	Hooreman	424/94.63
5,312,748	05-17-1994	Liu et al.	435/220

Foreign Documents

Number	Publication Date	Patentee	Country
WO 91/10723 A1	07-25-1991	Novo Nordisk	PCT
WO 95/02044 A1	01-19-1995	Novo Nordisk	PCT
WO 95/21540 A1	08-17-1995	The Quaker Oats Company	PCT
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WO 96/05739 A1	02-29-1996	Finnfeeds International Limited	PCT
WO 99/53038 A2	10-21-1999	Genencor International, Inc.	PCT
WO 98/56260 A1	12-17-1998	Cultor Corporation	PCT
0 130 756 B1	01-09-1985	Genentech, Inc.	EP
0 897 985 A2	02-24-1999	F. Hoffmann-La Roche	EP

Publications

- CAINE, et al., "Effect of protease treatment of soybean meal on content of total soluble matter and crude protein level of soybean trypsin inhibitors," *Animal Feed Science Technology* 71:177-183 (1998).
- GILL & VON HIPPEL, "Calculation of protein extinction coefficients from amino acid sequence data," *Analytical Biochemistry* 182:319-326 (1989).
- Handbook of Proteolytic Enzymes, Barrett, Rawlings & Woessner, eds., General Introduction and Chapter 93 (Academic Press, 1998).
- HIGGINS & SHARP, "Clustal: A package for performing multiple sequence alignment on a microcomputer," *Gene* 73:237-244 (1988).
- KANEDA & TOMINAGA, "Isolation and characterization of a proteinase from the sarcocarp of melon fruit," *J Biochem* 78:1287-1296 (1975).
- MICHALIK, et al., "Bacterial proteases: Production, isolation and utilization in animal nutrition," *Ukr Biokhim* 69:28-35 (1997).

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- REFSTIE, et al., "Feed consumption and conversion in Atlantic salmon (*Salmo salar*) fed diets with fish meal, extracted soybean meal or soybean meal with reduced content of oligosaccharides, trypsin inhibitors, lectins and soya antigens," *Aquaculture* 162:301-312 (1998).
- SMITH, et al., "Measurement of protein using bicinchonic acid," *Analytical Biochemistry* 150:76-85 (1985).

Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicants invite the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicants are of the opinion that their claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,



Patrea L. Pabst
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Dated: September 6, 2001

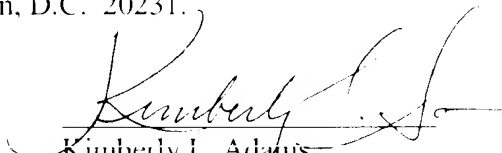
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Certificate of Mailing under 37 C.F.R. § 1.8(a)

I hereby certify that this Information Disclosure Statement, along with any paper referred to as being attached or enclosed, is being deposited with the United States Postal Service on the date shown below with sufficient postage as first-class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Date: September 6, 2001


Kimberly L. Adams